

SECRET

NPIC/TSSG/RED/ATB-095-70
23 April 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Attendance at the Annual Meeting of the Inter-Society Color Council

25X1
1. [REDACTED] TSSG/RED/ATB/EL, attended the 39th Annual Meeting of the Inter-Society Color Council in New York City on April 13 and 14, 1970.

2. The Inter-Society Color Council (ISCC) consists of organizations, companies and individuals interested in standardizing, describing, and specifying color and promoting the practical application of these results to color problems that arise in science, art, and industry. Some members of the council are the Society of Photographic Scientists and Engineers, the Optical Society of America, the American Psychological Association, the American Artists Professional League, Inc., the American Association of Textile Chemists and Colorists and the Federation of Societies for Paint Technology.

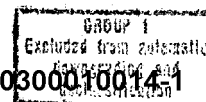
3. The Conference was divided into four sessions--two concerned with subcommittee meetings on specific color problems and two meetings of the full color council. I will describe pertinent papers and other information related to the conference and NPIC color affairs.

4. Perhaps of greatest significance to NPIC is a problem the ISCC will study in the following year. It was proposed by a representative of the Coast and Geodetic Survey. This problem is as follows:

The photo interpreters of the C&GS have difficulty in specifying colors on color aerial photography. Because color is a method of positive identification of some natural feature, they must be able to measure the color on the film, specify it with some designator and transmit the description to another facility. They have made preliminary attempts to relate transmission image color to reflection Munsell color but to date this has not been successful. This problem was accepted for study by the ISCC to be designated as Problem 31--Standard Methods of Measuring and Specifying Transparency Color Photography. Two men who took part in the discussion of this problem and who will presumably work on the problem are Ralph N. Evans, head of the Color Technology Division, [REDACTED] [REDACTED]
The ATB will keep close watch on the activities of this ISCC Problem 31.

25X1
Declass Review by NIMA/DOD

SECRET



SECRET

SUBJECT: Attendance at the Annual Meeting of the Inter-Society Color Council

5. Another subcommittee meeting concerned generating a Catalog of Color Measuring Instruments. A draft report was issued and is an attachment to this memorandum. This report covers colorimeters and spectrophotometers that are commercially available. The report makes no recommendations of specific pieces of equipment, but divides apparatus into different categories. One fact the subcommittee turned up is that there are no commercially available visual color measuring devices. The report, as issued, is invaluable information and should be useful to NPIC.

6. Procedures and Material Standards for Accurate Color Measurement concerned the results of a series of spectrophotometric measurements made on NBS calibrated samples. The measurements were made in various laboratories involved in color measurements. The results of a similar so-called Round Robin in 1969 were very interesting; there was greater variation than expected between laboratories, but the most striking feature was that the average of the laboratory measurements was not the same as the value the NBS determined. There has been no resolution of this difference.

7. Problem 7 was a Survey of American Color Specifications. In 1955 the ISCC published a report detailing the methods used by various American organizations to describe color. That report is now being updated.

8. Problem 10 was the color aptitude test designed to test viewers ability to discriminate different colors. The new terminology for this test will be the ISCC-Federation of Societies for Paint Technology-Saturation Discrimination Test.

9. Clemson University is sponsoring two short courses in color science, one in Basic Color Technology and another in applications of Computers to Color Science. To my knowledge these and the courses taught at Rennselleer Polytechnic Institute are the only courses taught yearly in the field of color.

10. In January of 1971, the ISCC will sponsor a conference "The Optimum Reproduction of Color" in Williamsburg, Va. Technologies to be included will be photography, graphic arts, and television.

11. In summary the conference was very worthwhile in three specific areas:

a. It pointed out the many people and organizations involved in color and color technology.

SECRET

SECRET

SUBJECT: Attendance at the Annual Meeting of the Inter-Society Color Council

b. The report on color measurement instrumentation will be very useful for NPIC purposes.

c. Problem 31 concerning the measurement and specification of colors on color photography is directly related to NPIC activities.



25X1

TSSG/RED/ATB/EL

Attachments:

1. Meeting Program
2. Catalog of Color Measuring Instruments

Distribution:

- Original - Route & File
2 - NPIC/TSSG/RED/ATB

SECRET

Inter-Society Color Council

39th Annual Meeting April 13-14, 1970

Statler Hilton Hotel New York, New York

Monday, April 13

Time

Room

9:00 a.m. -
12:00 p.m.

SUBCOMMITTEE MEETINGS, Mezzanine Level

Problem 7.	Survey of American Color Specifications: Robert F. Hoban, Chairman.	Pennsylvania
Problem 10.	Color Aptitude Test: Louis A. Graham and Angela Little, Co-chairmen.	Boston
Problem 22.	Procedures and Material Standards for Accurate Color Measurement: Joseph T. Atkins, Chairman.	Cornell
Problem 24.	Catalog of Color Measuring Instruments: Ruth M. Johnston, Chairman.	Dartmouth
Problem 25.	Determination of Strength of Colorants: Richard W. Harold and Rolf Kuehni, Co-chairmen.	Washington
Problem 30.	Color in the Building Industry: Milo B. Folley, Chairman.	Hartford

1:00 p.m. -
2:45 p.m.

Problem 25.	Determination of Strength of Colorants: Richard W. Harold and Rolf Kuehni, Co-chairmen.	Washington
Problem 30.	Color in the Building Industry: Milo B. Folley, Chairman.	Hartford
New Problems	Roland E. Derby, Jr., Chairman, Problems Committee	Cornell
Individual Member Group	Discussion with Individual Members of Activities of ISCC; Nick Hale, Board of Directors Liaison with IMG.	Dartmouth

3:00 p.m.

PRESENTATION

Georgian
Room

"Physiological Aspects of Psychological Responses to Color" by Dr. John Ott

Dr. Ott is Chairman and Executive Director of The Environmental Health and Light Research Institute, Sarasota, Florida.

5:30 p.m. -
7:30 p.m.

INFORMAL RECEPTION

Ivy Suite

This reception will honor the retiring Secretary, Ralph M. Evans and the retiring Treasurer, Norman Macbeth

(Cornell,
Dartmouth,
Pennsylvania
Rooms)

Tuesday, April 14

8:30 a.m.

REGISTRATION

Skytop Ballroom
18th Floor

9:00 a.m.

BUSINESS SESSION

Reports of Officers and Committees. Presiding:
Fred W. Billmeyer, Jr., President, Inter-Society Color Council

Report of Officers

President, Fred W. Billmeyer, Jr.
Secretary, Ralph M. Evans
Treasurer, Norman Macbeth

Report of Committees

Finance Committee, Norman Macbeth
Membership Committee, Walter C. Granville
News Letter Committee, Robert W. Burnham
Problems Committee, Roland E. Derby, Jr.
Delegation Chairmen

New Business

11:00 a.m.

RESEARCH REPORT

Skytop Ballroom

"Factors Affecting the Pleasantness of Object-Background Color Combinations",
Professor Harry Helson, University of Massachusetts at Amherst.

2:00 p.m. -
4:30 p.m.

SYMPOSIUM

Skytop
Ballroom

"The Use of Color in Art and Science"
Dr. Robert W. Burnham, Chairman,
Kodak Research Laboratories.

Speakers

Mr. Walter C. Granville, Granville Color Service, Libertyville, Illinois.

Professor Harry Helson, University of Massachusetts, Amherst, Mass.

Professor Dorothea Jameson Hurvich, University of Pennsylvania,
Philadelphia, Pennsylvania.

The Reverend Alfred A. Juliano, Center for Experimental Automotive
Safety Research, Drexel Hill, Pennsylvania.

Mr. Calvin S. McCamy, National Bureau of Standards, Washington, D.C.

Mr. Frank C. Wright, American Artists Professional League, New York.

Respondents

Mr. C. James Bartleson, Kollmorgen Corporation, Newburgh, New York.

Dr. Jo Ann S. Kinney, U.S. Naval Submarine Medical Center, Groton,
Connecticut.

Mr. Raymond Spilman, Raymond Spilman Industrial Design, Stamford,
Connecticut.

6:00 p.m.

INFORMAL RECEPTION

Ivy Suite
(Mezzanine Level)

7:00 p.m.

DINNER

Gold Ballroom

Presiding: Dr. Randall M. Hanes
Incoming President, Inter-Society Color Council

8:30 p.m.

Dr. Robert W. Burnham, Kodak Research Laboratories
will present an illustrated lecture entitled
"More to Color than Meets the Eye".

Program Committee

Dr. Randall Hanes, Chairman

Symposium Committee

Dr. Robert W. Burnham

Banquet Committee

Miss Midge Wilson

Officers 1970-71

Dr. Randall M. Hanes, APA, President
Mr. Richard S. Hunter, OSA, Vice-President
Dr. Fred W. Billmeyer, Jr., SPE, Secretary
Mr. Warren B. Reese, SMPTE, Treasurer
Dr. Fred W. Billmeyer, Jr., SPE, Director
Mr. S. Leonard Davidson, FSPT, Director
Dr. Robert L. Feller, AAPL, Director
Mr. George B. Gardner, SPSE, Director
Mr. Raymond Spilman, IDSA, Director